

Math Practice:

15 is 40% of what?

↳ 0.40

$$\left(\frac{15}{\cancel{x}} \right) \times = (0.40) \times \quad \frac{15}{0.4} = \frac{(0.4) \times}{\cancel{0.4}}$$

$$x = \frac{15}{0.4}$$

$$= 37.5$$

$$\frac{15}{0.4} = x$$

What is 28% of 102?

$$\frac{X}{102} = .28$$

$$X = (102)(.28) = 28.56$$

what percentage is 204
of 1275?

$$\frac{204}{1275} = X$$

$$X = .16 \rightarrow \text{percentage}$$

$$X = 16\%$$

Some difficulties getting data:

- Writing in correct column
- Finding a person
- If copying from another and they got something wrong, then you got it wrong
- Eyesight \rightarrow reading ability
- Units mismatch
1 hr v. 60 minutes
- Time consuming

Statistics:

Science of conducting studies to collect, organize, summarize, analyze, and draw conclusions from data.

- 5 W's (+1)

- Who
- What
- When
- Where
- Why
- How

- To have data, we must have the Who and What questions answered.
- Data must have context
 - ↳ this is a plural
 - singular form is Datum
- Who
 - Population
 - Total group that you have
 - Examples
 - Class
 - All states in a country
 - " people " " "
 - " alpacas " " "
 - All teachers in school
 - Anytime we use a number to describe population, it is called a parameter.
 - Most of the time, we do not know the parameter value.

- Sample
 - Small representation of a population
- Statistic → number that describes a sample
- We use statistics to estimate parameters